

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-12. (cancelled)

13. (new) A greenhouse construction with rail system for moving a carriage thereover for moving plants or carrying out further treatments thereon, said greenhouse construction comprising:

plural vertical columns (3);

first and second longitudinal beams (9, 10) extending, in a first direction, between and connected to said columns (3), the first and second longitudinal beams (9) maintaining cohesion between said vertical columns (3);

plural gutters (19) running in a second direction, between and over the first longitudinal beam (9) and the second longitudinal beam (10);

a roof construction (2) comprised plural connected individual roofs (4),

each individual roof (4) comprising one of the gutters (19) and extending, in the second direction, between and over the first longitudinal beam (9) and the second longitudinal beam (10);

plural ridge sections (21), each ridge section (21) connecting two of said individual roofs (4) along the first direction,

each individual roof (4) comprised of plural panels (5), each panel extending from a corresponding one of the gutters (19) to a corresponding one of the ridge sections (21), the panels (5) connected to each other from the first longitudinal beam (9) to the second longitudinal beam (10); and

a movable carriage (15) supported by and extending between the first and second longitudinal beams (9, 10), the carriage movable in the first direction.

14. (new) The greenhouse construction of claim 13, said further comprising:

plural auxiliary columns (20) respectively supported by said vertical columns (3); and

further auxiliary columns (20) supported by said longitudinal beams (9, 10), each of the further auxiliary columns (20) being located intermediate two adjacent vertical columns (3) of a corresponding one of the first and second longitudinal beams (9, 10), each of said further auxiliary columns (20) being free of support from any of said vertical columns (3), at least some of the gutters (19) supported by the further auxiliary columns (20).

15. (new) The greenhouse construction of claim 13,  
wherein,

wherein the panels (5) are made of a film material, and  
a distance between the first and second longitudinal  
beams (9, 10) is 8 to 20 meters.

16. (new) The greenhouse construction of claim 13,  
wherein,

each of the first and second longitudinal beams (9, 10)  
comprise three longitudinal sections (11, 12, 13) extending in  
the first direction, the three longitudinal sections joined by  
link sections (17),

the carriage (15) comprises wheels (14), and

one of the three longitudinal sections (13) of each  
longitudinal beam (9, 10) is arranged as a rail taking the wheels  
(14) of the carriage (15).

17. (new) The greenhouse construction of claim 16,  
wherein,

said one of the three longitudinal sections (13) is one  
of a bottom, a top, and a side section of the three longitudinal  
sections.

18. (new) The greenhouse construction of claim 13, wherein,

each of the first and second longitudinal beams (9, 10) comprises two longitudinal sections (32, 33) extending in the first direction with a first of the longitudinal sections (32) located above a second of the longitudinal sections (33),

the two longitudinal sections each have a U cross-section,

the two longitudinal sections are joined, along a centerline of each longitudinal section, by link sections (17),

the carriage (15) comprises wheels (14), and

the second of the longitudinal section (32) has an area extending in the first direction and defining a tray (35), the tray (35) taking the wheels (14) of the carriage (15).

19. (new) A greenhouse construction with rail system for moving a carriage thereover for moving plants or carrying out further treatments thereon, said greenhouse construction comprising:

plural vertical columns (3);

first and second longitudinal beams (9, 10) being supported by and extending, in a first direction, between said columns (3);

plural gutters (19) running in a second direction, between and over the first longitudinal beam (9) and the second longitudinal beam (10),

at least some of the gutters (19) supported by the first and second longitudinal beams at locations where the first and second longitudinal beams are supported by the vertical columns,

at least some others of the gutters (19) directly supported by the first and second longitudinal beams at locations where the first and second longitudinal beams are free of support from the vertical columns (3),

a roof construction (2) comprised plural connected individual roofs (4),

each individual roof (4) comprising one of the gutters (19) and extending, in the second direction, between and over the first longitudinal beam (9) and the second longitudinal beam (10);

plural ridge sections (21), each ridge section (21) connecting two of said individual roofs (4) along the first direction,

each individual roof (4) comprised of plural panels (5), each panel extending from a corresponding one of the gutters (19) to a corresponding one of the ridge sections (21); and

a movable carriage (15) supported by and extending between the first and second longitudinal beams (9, 10), the carriage movable in the first direction.

20. (new) The greenhouse construction of claim 19, wherein the panels (5) are made of a film material.

21. (new) The greenhouse construction of claim 19, wherein,

a distance between the first and second longitudinal beams (9, 10) is 8 to 20 meters.

22. (new) The greenhouse construction of claim 19, wherein,

each of the first and second longitudinal beams (9, 10) comprise three longitudinal sections (11, 12, 13) extending in the first direction, the three longitudinal sections joined by link sections (17),

the carriage (15) comprises wheels (14), and

one of the three longitudinal sections (13) of each longitudinal beam (9, 10) is arranged as a rail taking the wheels (14) of the carriage (15).

23. (new) The greenhouse construction of claim 22, wherein,

said one of the three longitudinal sections (13) is one of a bottom, a top, and a side section of the three longitudinal sections.

24. (new) The greenhouse construction of claim 19, wherein,

each of the first and second longitudinal beams (9, 10) comprises two longitudinal sections (32, 33) extending in the first direction with a first of the longitudinal sections (32) located above a second of the longitudinal sections (33),

the two longitudinal sections each have a U cross-section,

the two longitudinal sections are joined, along a centerline of each longitudinal section, by link sections (17),

the carriage (15) comprises wheels (14), and

the second of the longitudinal section (32) having an area extending in the first direction and defining a tray (35), the tray (35) taking the wheels (14) of the carriage (15).

25. (new) A greenhouse construction with rail system for moving a carriage thereover for moving plants or carrying out further treatments thereon, said greenhouse construction comprising:

plural vertical columns (3);

first and second longitudinal beams (9, 10) being supported by and extending, in a first direction, between said columns (3);

members (19) running in a second direction, between and over the first longitudinal beam (9) and the second longitudinal beam (10),

at least some of the members (19) supported by the first and second longitudinal beams at locations where the first and second longitudinal beams are supported by the vertical columns,

a roof construction (2) comprised plural connected individual roofs (4),

each individual roof (4) comprising one of the members (19) and extending, in the second direction, between and over the first longitudinal beam (9) and the second longitudinal beam (10);

plural ridge sections (21), each ridge section (21) connecting two of said individual roofs (4) along the first direction; and

a movable carriage (15) supported by and extending between the first and second longitudinal beams (9, 10), the carriage movable in the first direction.

26. (new) The greenhouse construction of claim 25, wherein,



at least some others of the members (19) supported at locations where the first and second longitudinal beams are free of support from the vertical columns, and

the roofs (4) are made of a film material.

27. (new) The greenhouse construction of claim 25, wherein,

a distance between the first and second longitudinal beams (9, 10) is 8 to 20 meters.

28. (new) The greenhouse construction of claim 25, wherein,

each of the first and second longitudinal beams (9, 10) comprise three longitudinal sections (11, 12, 13) extending in the first direction, the three longitudinal sections joined by link sections (17),

the carriage (15) comprises wheels (14), and

one of the three longitudinal sections (13) of each longitudinal beam (9, 10) is arranged as a rail taking the wheels (14) of the carriage (15).

29. (new) The greenhouse construction of claim 28, wherein,

said one of the three longitudinal sections (13) is one of a bottom, a top, and a side section of the three longitudinal sections.

30. (new) The greenhouse construction of claim 25, wherein,

each of the first and second longitudinal beams (9, 10) comprises two longitudinal sections (32, 33) extending in the first direction with a first of the longitudinal sections (32) located above a second of the longitudinal sections (33),

the two longitudinal sections each having a U cross-section,

the two longitudinal sections joined, along a centerline of each longitudinal section, by link sections (17),

the carriage (15) comprises wheels (14), and

the second of the longitudinal section (32) having an area extending in the first direction and defining a tray (35), the tray (35) taking the wheels (14) of the carriage (15).